

Engineering motordata (WIN 1217)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	245 V AC (rms)
Rated power	358 W
Rated speed	4500 rpm
Rated torque	0.76 Nm
Rated current	1.15 A (rms)
Peak torque	2.4 Nm
Peak current	4.3 A (rms)
Stall torque	0.95 Nm
Stall current	1.17 A (rms)
No load speed	7690 rpm
EMF constant ±10%	49 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.81 Nm / A (rms)
Torque constant ±10% @ rated load	0.66 Nm / A (rms)
Number of poles	10
Electrical time constant	1.97 ms
Winding terminal resistance	17.255 Ω
Rotary field terminal inductance	34 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	2.27 ms
Thermal time constant	25 min
Rotor inertia	0.5 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	2.5 kg

Sensors

Temperature	PT1000 {PT1000}
Feedback	EKS36 (HDSL) single-turn, 18 bits, SIL2

Gearbox engineering data

Gear ratio	75
Efficiency	70 %*
Torsional stiffness	8 Nm/arcmin
Rated output torque	50 Nm
Max output torque	125 Nm
Rated input speed	2000 rpm
Max input speed	5000 rpm
Operating temperature	<-25; 50> °C
Max. backlash	< 0.5 arcmin
Service life	6000 h

* at rated speed & torque

Lubrication

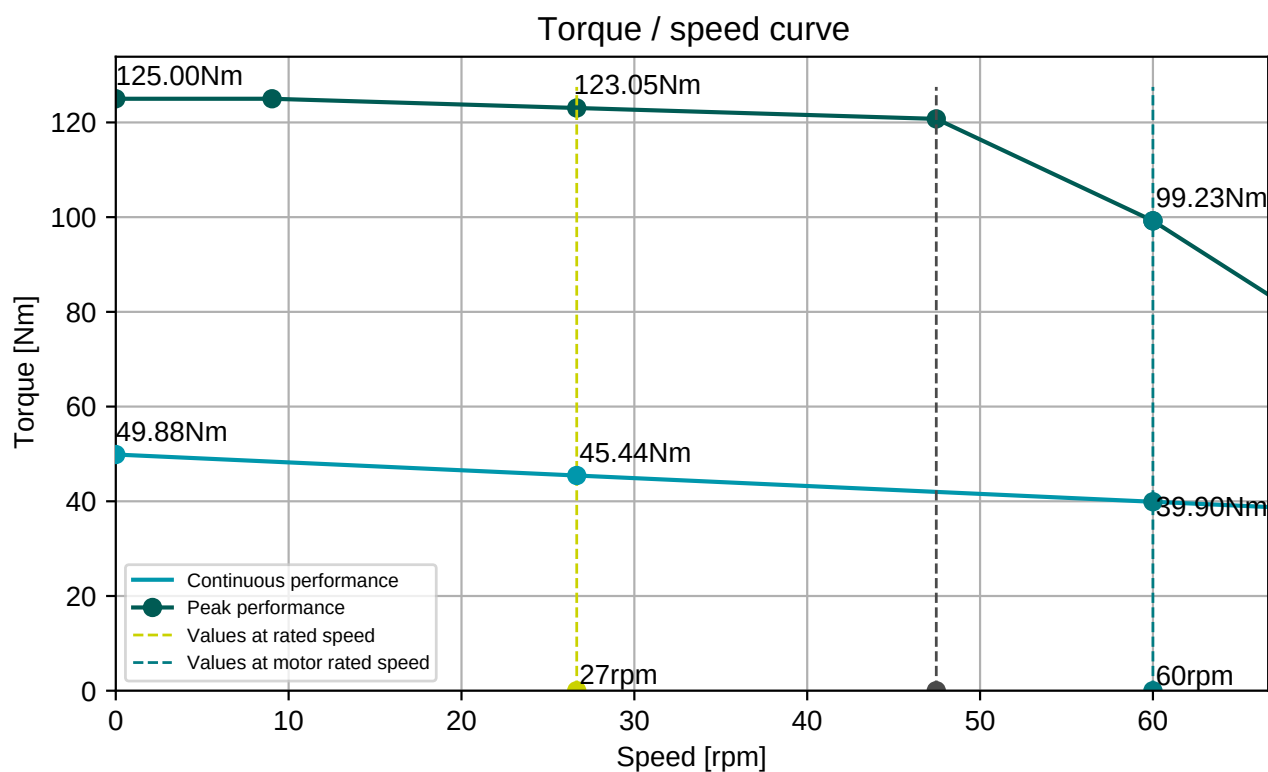
Type	Standard
Lubricant	Mobil SHC150

Gearbox mechanical data

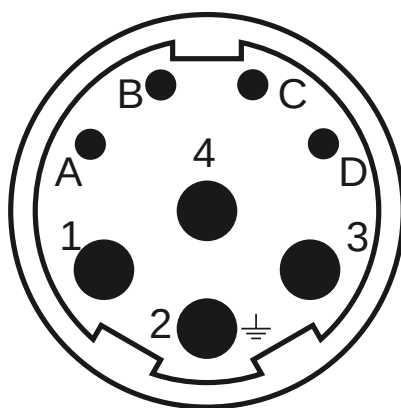
Max. radial force	2800 N
Max. axial force	4100 N
Output shaft design	Flange
Mass	1.35 kg
Input inertia	0.061 kgcm ²
Protection	IP64

Actuator data

Rated speed	27 rpm
Rated torque	45.44 Nm
Peak torque	125.00 Nm
EMF constant ±10%	3675.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	34.70 Nm / A (rms)
Total mass	3.85 kg
Output inertia	3155.6 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


Connector 1 (283)

1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+

